

CJC® Desorber Conditioning Unit D40CU

Drying, Cleaning and Care of Oils and Fluids

Product Sheet

APPLICATION

The CJC® Desorber Conditioning Unit (D40CU) reduces quickly and efficiently the water content in your oils and fluids down to below < 100 ppm and simultaneously minimizes the content of particles and oil ageing products (acids, sludge, varnish). The CJC® D40CU breaks even stable emulsions with a water content of up to 70 %. Typical applications are e. g.:

Systems:

- Hydraulic- & hydrostatic systems
- Gearboxes & lube oil systems
- Oil recovery:
 - · Machining oil
- Leakage oil
- Quenching oil

Fluids:

- Mineral oil
- Bio-oil / EAL
- Ester
- PAG
- PAO
- synthetic fluids



CJC® D40CU

In the paper, steel, plastic moulding and metalworking industries, just as in maritime applications, exists – environment- and process-related a high risk for water ingress in the oil systems.

ADVANTAGES

You can install the CJC® D40CU quickly and easily at a freestanding tank or in the off-line flow. The independent circuit enables continuous depth filtration and desorption (24/7) and ensures clean and dry oil within the shortest time. The CJC® D40CU ...

- removes free, emulsified and dissolved water, and particles and oil ageing products (acids, sludge, varnish)
- prevents oil and additive degradation, and microorganisms
- enables maximum corrosion and wear protection
- extends the lifetime of oil and system components by factor 3 to 4
- helps to reduce unplanned downtime and costs
- is easy to install and operate and low-maintenance

The water separation based on desorption occurs independently from viscosity and air content in the oil. It has no impact on the additive package.

FUNCTION

Fine filter unit:

The pump in the oil inlet sucks in the oil from the tank. In the first stage, the fluid flow passes through the filter with the integrated fine and depth filter cartridge before it is fed into the desorber chamber in the second stage. Water but also particles in the oil accelerate the degradation of base oil and additives (oil ageing). The filter removes particles and already by oil degradation processes formed reaction products.

Desorber:

In the desorber chamber, the still moist, warm oil meets a cold, dry air counterflow. The oil heats the cold air so that the air gets the ability to absorb a lot of moisture (system pressure constantly low < 2 bar). In a subsequent process, the warm, moist air cools down again, and the water condenses.

TECHNICAL DATA CJC® D40CU Oil volume, 25.000 dimensioning, e. g. up to ISO VG 1000 Viscosity range (ISO 3448) Water content in oil max. 700,000 (70 %) Water content permanent Water separation < 100 ppm (0,01 %) Dirt holding capacity up to 192 kg 3 µm absolute Filtration degree down to 1 µm Depth fiter inserts Pcs 3 x 3 x 3 x Supply voltage 525 575 440/460 Нz 50 60 50/60 Frequency Power consumption kW 7-25 Current Α 36 **Pump flow** (24/7) L/h 1,400 System pressure (suction side), har 0.5 Dimensions, L x B x H mm 2,565 x 1,795 x 1,868 Weight, ca. 1,694 kg

Equipment and features

Standard:

- Pump with motor
- electrical control with an integrated alarm reporting system
- Leakage monitoring
- continuous de-aeration
- Sample point for oil/fluid analysis
- automatic water separation

Optional:

- Air, water or coolant cooling system
- independent placement of the filter pump for flexible integration in your machine room

ment shall be in place to keep the water content of the oil under control."

PDD1322-0-UK

FACTS

Water in oil changes

the viscosity and

deteriorates the

lubricity of the oil.

Furthermore, water

accelerates oxidative

oil ageing processes

and decimates the ad-

ditive package. Wear,

corrosion, cavitation, increased foam risk,

and bacterial arowth

are the result – all

factors that lead to

nents and the oil.

The Classification

Society, DNV-GL has

stated for their Clean

"If a biodegradable oil

is used, an arrange-

Design Class Notifi-

DNV-GL

cation:

a reduced lifetime of both system compo-



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